

therefor;

in lines 8-9, cancel "is a matter of" and substitute --deals with-- therefor;

in line 9, cancel ", respectively," and cancel ". The" and substitute --, in which the-- therefor;

5 in line 10, cancel "thereby";

in line 11, cancel "whereby" and substitute --and-- therefor;

in line 17, after "i.e.", insert --,--;

in line 22, cancel "What is referred to as the" and substitute --The-- therefor, and cancel ", respectively,";

10 in line 23, cancel "thereto" and substitute --to the STM transmission

principle-- therefor;

in line 24, cancel "or, respectively," and substitute --/-- therefor;

in line 25, cancel "now";

in line 26, after "with", insert --a--; and

15 in line 28, cancel "What is referred to as a" and substitute --A-- therefor.

**On page 2:**

in line 1, cancel ", respectively,";

in lines 4-5, cancel "arrow direction" and substitute --the direction

indicated by the arrow-- therefor;

20 cancel line 5 and substitute --) from a sender to a receiver. Each cell--

therefor;

in line 8, cancel "whereas" and substitute --and-- therefor;

in line 9, cancel "or, respectively," and substitute --/--;

in line 10, cancel ", these being" and substitute --which are-- therefor;

25 in line 13, cancel ", respectively,";

in line 16, cancel "thereby";

in line 17, cancel "however,";

in line 19, cancel "The" and substitute --To address this problem, the--

therefor;

in lien 24, cancel "What is referred to as an" and substitute --An--  
therefor; and

in line 29, cancel "whereby" and substitute --and-- therefor.

**On amended page 3:**

- 5 in line 15, cancel "whereof" and substitute --of which-- therefor;  
in line 17, cancel "all";  
in line 18, cancel "therein that" and substitute --in-- therefor;  
in lines 20-21, cancel "can be taken from" and substitute --is disclosed in--  
- therefor;  
10 in line 21, cancel ". The" and substitute --, in which-- therefor, and  
cancel "thereby";  
in line 22, cancel "as a result whereof a not inconsiderable" and substitute  
--resulting in a significant-- therefor;  
in line 23, cancel "arises";  
15 in line 24, cancel "Further" and substitute --Furthermore-- therefor;  
in lien 25, cancel ". How" and substitute --, which particularly addresses--  
- therefor;  
in line 26, cancel "is thereby particularly addressed"; and  
in line 28, cancel "here" and substitute --in this reference-- therefor.

20 **On amended page 3a:**

above line 1, insert --SUMMARY OF THE INVENTION--;  
in line 4, cancel "whereby" and substitute --in which-- therefor;  
cancel lines 8-12 and substitute --

25 According to the present invention, this object is achieved by a method  
for the transmission of data in an ATM transmission system, comprising the steps  
of supplying digital data of a specific plurality of data channels parallel to an input  
side of a sender, converting the digital data into data units that respectively  
comprise an identical plurality of bits from each of the data channels, serially

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transmitting individual the data units in a form of cells that are respectively composed of a specific plurality of the data units, each cell having a specific, characteristic bit sequence, receiving, by a receiver the serially transmitted data units, monitoring, by the receiver, the received data units for an occurrence of the characteristic bit sequence and, after identifying the characteristic bit sequence, identifying a first data unit of a cell corresponding to the characteristic bit sequence, successively dividing, beginning with the first data unit of the cell corresponding to the characteristic bit sequence, individual bits of each the data unit of the corresponding cell onto a plurality of parallel data channels of an output side of the receiver corresponding in number to the plurality of data channels of the input side of the sender and the bits of each the data unit are output parallel via corresponding the data channels of the output side.

This object is also achieved by an ATM transmission system comprising a sender that converts digital data of a specific plurality of data channels supplied to it at an input side into data units such that each data unit comprises an identical plurality of bits from each the data channel, and serially transmits individual the data units via a transmission medium in a form of cells, each the cell comprising a specific plurality of data units, each the cell respectively comprising comprises a specific, characteristic bit sequence, a receiver that receives the serially transmitted data units from the sender and monitors the data units for an occurrence of the characteristic bit sequence, the receiver, after detecting the characteristic bit sequence in the serially transmitted data units, determines a first data unit of the cell corresponding to the characteristic bit sequence and, beginning with the first data unit, successively divides individual the bits of each the data unit of a corresponding cell onto a plurality of parallel data channels of an output side corresponding in number to the plurality of data channels of the input side and outputs the individual the bits of each the data unit in parallel.

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**On page 4:**

in line 1, cancel "Prior" and substitute --Related-- therefor;  
in line 3, after "i.e.", insert --,--;  
in line 4, cancel "whereby" and substitute --where-- therefor; and  
in line 27, cancel "whereby" and substitute --by which-- therefor.

**On page 5:**

in line 6, after "described" insert --associated--;  
in line 7, cancel "therewith";  
in lines 9-10, cancel ", respectively,";  
in line 10, cancel "Further" and substitute --Furthermore-- therefor;  
above line 14, insert --BRIEF DESCRIPTION OF THE DRAWINGS --;  
in lines 15-16, cancel "Thereby shown are:";  
in line 17, after "Figure 1", insert --is--;  
in line 18, after "Figure 2", insert --is a data structure diagram showing--;  
in line 21, cancel "an illustration of" and substitute --is a flow diagram

illustrating-- therefor;

in line 23, after "Figure 3b", insert --is--;

above line 24, insert --DESCRIPTION OF THE PREFERRED  
EMBODIMENTS--;

in line 26, after "3", insert --B--;

in line 27, cancel "transmission means" and substitute --  
sender/transmitter-- therefor; and

in line 30, cancel "reception means" and substitute --receiver-- therefor.

**On page 6:**

in line 3, cancel "transmission means" and substitute --sender-- therefor;

in line 5, cancel "transmission S means" and substitute --sender S--  
therefor;

in line 6, cancel "reception means" and substitute --receiver-- therefor;

in line 8, after "with a" and substitute --corresponding-- therefor;  
in line 9, cancel "in accord therewith--";  
in line 13, cancel "transmission means" and substitute --sender-- therefor;  
in line 14, cancel "transmission means" and substitute --sender-- therefor,  
5 and cancel "reception means" and substitute --receiver-- therefor;  
in line 16, cancel "[sic]" and substitute --in a-- therefor;  
in line 20, cancel "transmission means" and substitute --sender-- therefor,  
and cancel "reception means E shall be" and substitute "receiver E is-- therefor;  
in line 25, cancel "or, respectively," and substitute --/-- therefor, and  
10 cancel "these being" and substitute --which are-- therefor;  
in line 28, cancel "aforementioned" and substitute --previously-- therefor,  
and cancel "wherein" and substitute --in which-- therefor; and  
in line 29, cancel "whereas" and substitute --and-- therefor.

**On page 7:**

15 in line 1, cancel "transmission means" and substitute --sender S--  
therefor;  
in line 2, cancel "or, respectively," and substitute --/-- therefor;  
in line 9, cancel "or, respectively," and substitute --/-- therefor;  
in line 10, cancel "already";  
20 in line 21, cancel "whereby each data unit" and substitute --each of  
which-- therefor;  
in line 25, after "i.e." insert --,--; and  
in line 30, cancel "whereby," and substitute --in which-- therefor.

**On page 8:**

25 in line 2, cancel "whereby" and substitute --by which-- therefor;  
in line 7, after "transmitter", insert --/sender--;  
in line 8, cancel "whereby" and substitute --where-- therefor;  
in line 11, after "transmitter", insert --/sender--;

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in line 13, cancel "thereby";  
in line 15, cancel "So that" and substitute --In order for-- therefor, and  
cancel "can" and substitute --to-- therefor;  
cancel line 20 and substitute --A characteristic bit sequence that is--

5 therefor;

in line 23, after "i.e.", insert --,--;  
in line 25, cancel "it can" and substitute --the receiver can-- therefor; and  
in line 27, after "i.e.", insert --,--.

**On page 9:**

10 in line 6, after "i.e.", insert --,--;  
in line 7, after "i.e.", insert --,--;  
in line 18, cancel "more" and substitute --most-- therefor;  
in line 24, cancel "surmises" and substitute --presumes that this is--  
therefor; and  
15 in line 28, after "i.e.", insert --,--.

**On page 10:**

in lines 4-5, cancel "As has already been explained, the" and substitute --  
The-- therefor;  
in line 9, cancel "thereby";  
20 in line 24, after "octets", insert --,--; and  
in line 26, after "used", insert --,--, and after "reserved", insert --,--.

**On page 11:**

in line 2, cancel "Further" and substitute --Furthermore-- therefor, and  
after "for", insert --a--;  
25 in line 19, cancel "so that this shall" and substitute --and will-- therefor;  
and  
in line 21, cancel "Further" and substitute --Furthermore-- therefor.

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